

WHAT IS CLAIMED IS:

1. A medical needle shield apparatus comprising:
 - a needle hub having a needle cannula extending therefrom to a distal end; and
 - at least one shield being extensible from a retracted position to an extended position to enclose a distal end of the needle,
 - the shield including a binding member disposed within the shield and defining binding surfaces that form an aperture configured for slidable receipt of the needle between the retracted position and the extended position,
 - the binding member including at least one drag inducing member such that the at least one drag inducing member engages the needle during slidable receipt of the needle to create a drag force with the needle, the drag force and shield facilitating rotation of the binding member relative to a longitudinal axis of the needle such that the binding surfaces engage the needle to prevent slidable movement of the needle in the extended position of the shield,
 - the binding member further including a needle communicating surface extending therefrom such that the needle communicating surface is engageable with the needle to prevent rotation of the binding member,
 - a retainer for releasable engagement with the needle hub, and
 - the binding member further including a binding member reset surface selectively alignable with a reset surface.
2. A medical needle shield apparatus as recited in claim 1, wherein the at least one drag inducing member defines a cavity that is substantially aligned with the aperture, the cavity being configured for slidable receipt of the needle to create the drag force with the needle.
3. A medical needle shield apparatus as recited in claim 1, wherein the binding member includes a substantially planar aperture plate that includes the binding surfaces that form the aperture.
4. A medical needle shield apparatus as recited in claim 3, wherein the at least one drag inducing member includes a pair of arms extending from the aperture plate.

5. A medical needle shield apparatus as recited in claim 3, wherein the arm includes a deflectable member.

6. A medical needle shield apparatus as recited in claim 1, wherein the binding member is rotatable, relative to a longitudinal axis of the inner needle,
5 between a non-binding orientation whereby the inner needle is slidable relative to the binding member and a binding orientation whereby the binding surfaces engage the inner needle to prevent slidable movement of the inner needle in the extended position of the at least one shield.

7. A medical needle shield apparatus as recited in claim 1, wherein the
10 shield includes a housing that defines at least one blocking member extending from a surface thereof, the at least one blocking member being engageable with the binding member for urging the binding member to a binding orientation.

8. A medical needle shield apparatus as recited in claim 3, wherein the shield includes a housing that defines at least one blocking member extending from a
15 surface thereof, the aperture plate being axially movable for engagement with the at least one blocking member that causes rotation of the binding member to a binding orientation.

9. A medical needle shield apparatus as recited in claim 1, wherein the at least one shield is supported for relative rotational movement by at least one bearing.

20 10. A medical needle shield apparatus as recited in claim 1, wherein the needle is attached to a handle for manipulation thereof.

11. A medical needle shield apparatus as recited in claim 1, wherein the needle hub is releasably mountable with a housing of the at least one shield.

25 12. A medical needle shield apparatus as recited in claim 1, wherein the needle hub defines a hub slot that is configured to receive the retainer of the binding member.

13. A medical needle shield apparatus as recited in claim 1, wherein the binding member includes at least one outwardly arcuate arm that extends to the needle communicating surface.

30 14. A medical needle shield apparatus as recited in claim 1, further comprising a plurality of shields.

15. A medical needle shield apparatus as recited in claim 1, wherein said binding member reset surface comprises the distal facing surface of said retainer.

16. A medical needle shield apparatus as recited in claim 1, wherein said reset surface is configured to deflect said binding member reset surface to facilitate 5 rotation of the binding member relative to said longitudinal axis such that said binding surface disengages the inner needle.

17. A medical needle shield according to claim 1, wherein said medical needle is adapted for bone biopsy.

18. A medical needle shield apparatus as recited in claim 1, wherein said 10 reset surface is separate from said hub and urged by a spring toward said binding member reset surface.

19. A medical needle shield apparatus of claim 18, further comprising a luer male taper configured with said hub.

20. A medical needle shield according to claim 1, further comprising a 15 protective needle sheath member.

21. A medical needle shield apparatus as recited in claim 1, wherein the shield includes a probe guide at a distal end thereof configured for receipt of an obturator, the obturator being configured for slidable movement with the needle cannula.

20 22. A medical needle shield according to claim 1, further comprising a retention element.

23. A medical needle shield according to claim 1, further comprising a guiding member for guiding through-the-needle devices.

24. A medical needle shield according to claim 1, further comprising a 25 funnel for guiding an obturator.

25. A medical needle shield according to claim 1, further comprising a detent disposed between the needle hub and the shield.

26. A medical needle shield according to claim 1, wherein said shield further comprises a flexible funnel.

30 27. A medical needle shield according to claim 1, wherein said shield further comprises a depth stop.